



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/559,171	04/26/2000	Daniel ManHung Wong	OR00-00801	1509
51067	7590	06/27/2006	EXAMINER	
ORACLE INTERNATIONAL CORPORATION c/o PARK, VAUGHAN & FLEMING LLP 2820 FIFTH STREET DAVIS, CA 95618-7759			TO, BAOQUOC N	
			ART UNIT	PAPER NUMBER
			2162	

DATE MAILED: 06/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental
Notice of Allowability

Application No.

09/559,171

Examiner

Baoquoc N. To

Applicant(s)

WONG ET AL.

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Feb 2006.
2. ☒ The allowed claim(s) is/are 1,3-5,7-11,13-15,17-21 and 27-33.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

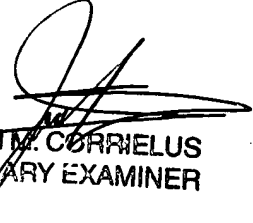
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 01/30/2006
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 06/16/2006.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


JEAN M. CORRIELLUS
PRIMARY EXAMINER

DETAILED ACTION

1. Claims 1, 11 and 21 are amended in the amendment filed on 11/04/2005.

Claims 1, 3-5, 7-11, 13-15, 17-21 and 27-33 are pending in this application.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 01/30/2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Edward J. Grundler, Reg. No. 47,615 on 03/28/2005.

Please amend the applicant as follow:

1. (Currently Amended) A method for selectively auditing accesses to a relational database system comprising:

receiving a query from a client at a database server that process queries for the relational database system, wherein the relational database system comprises a

Art Unit: 2162

plurality of relational tables, wherein each of the relational tables includes an auditing flag which indicates whether auditing is enabled for the relational table;

determining if auditing enabled by checking the auditing flag;

if so, automatically modifying the query prior to processing the query, so that processing the query causes an auditing record to be created and recorded only for selected rows in relational tables that are accessed by the query and that satisfy an auditing condition, wherein the auditing condition specifies selecting a row based on the value of a field in the row in the relational database;

processing the query at the database server to produce a query result;
conditionally creating the audit record only for rows in relational tables that are actually accessed by the query and that satisfy the auditing condition;

recording the audit record in an audit record store; and

returning the query result to the client.

11. (Currently amended) A computer-readable medium storing instructions that when executed by a computer cause the computer to perform a method for selectively auditing accesses to a relational database system, the method comprising:

receiving a query from a client at a database server that processes queries for the relational database system, wherein the relational database system comprises a plurality of relational tables, wherein each of the relational tables includes an auditing flag which indicates whether auditing is enabled for the relational table;

determining if auditing is enable by checking the auditing flag;

Art Unit: 2162

if so, automatically modifying the query prior to processing the query, so that processing the query causes an audit record to be created and recorded only for selected rows in relational tables that are accessed by the query and that satisfy an auditing condition, wherein the auditing condition specifies selecting a row based on a value of a field in the row in the relational database;

processing the query at the database server to produce a query result;

conditionally creating the audit record only for rows in relational tables that are actually accessed by the query and that satisfy the auditing condition;

recording the audit record in an audit record store; and

returning the query result to the client.

21. (Currently amended) An apparatus that selectively audits accesses to a relational database system, comprising:

a database server;

a receiving mechanism, at the database server, that is configured to receive a query from a client, wherein the database server processes queries for the relational database system, wherein the relational database system comprises a plurality of relational tables, wherein each of the relational tables includes an auditing flag which indicates whether auditing is enabled for the relational table;

a determining mechanism that is configured to determine if auditing is enabled by checking the auditing flag;

a query modification mechanism that is configured to modify the query prior to processing the query, so that processing the query causes an audit record to be created and recorded only for selected rows in relational tables that are accessed by the query and that satisfy an auditing condition, wherein the auditing condition specifies selecting a row based on a value of a field in the row in the relational database;

a query processor that is configured to process the query at the database server to produce a query result;

an auditing mechanism that is configured to,

conditionally create the audit record only for rows in relational tables that

are actually accessed by the query and ~~that~~ satisfy the auditing condition,

and to record the auditing record in an audit record store; and

a returning mechanism that returns the query result to the client.

Allowable Subject Matter

4. Claims 1, 3-5, 7-11, 13-15, 17-21 and 27-33 allowed over prior art made of record.

The following is an examiner's statement of reasons for allowance:

As to claim 1, none of the known prior art alone or in combination neither teach nor suggests "receiving a query from a client at a database server that process queries for the relational database system, wherein the relational database system comprises a plurality of relational tables, wherein each of the relational tables includes an auditing flag which indicates whether auditing is enabled for the relational table; determining if

Art Unit: 2162

auditing enabled by checking the auditing flag; if so, automatically modifying the query prior to processing the query, so that processing the query causes an auditing record to be created and recorded only for selected rows in relational tables that are accessed by the query and that satisfy an auditing condition, wherein the auditing condition specifies selecting a row based on the value of a field in the row in the relational database;" in conjunction with "processing the query at the database server to produce a query result; conditionally creating the audit record only for rows in relational tables that are actually accessed by the query and that satisfy the auditing condition; recording the audit record in an audit record store; and returning the query result to the client."

Claims 3-5, 7-10 and 31 are depended on claim 1; therefore, the depended claims 3-5, 7-10 and 31 are allowed under the same reason as to claim 1.

Claim 11 is a computer-readable storage medium storing the executable instruction to perform the method recited in claim 1; therefore, the recited claim 11 is allowed under the same reason as to claim 1.

Claims 13-15, 17-20 and 32 are pended on claim 11; therefore, the depended claims 13-15, 17-20 and 32 are allowed under the same reason as to claim 11.

Claim 21 is an apparatus to perform the method disclosed in claim 1; therefore, claim 21 is allowed under the same reason as to claim 1.

Claim 23-25, 27-30 and 33 are depended on claim 21; therefore, depended claims 23-25, 27-30 and 33 are allowed under the same reason as to claim 21.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Art Unit: 2162

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Patents and Publication :

Bailey et al.	US. Patent No. 5,794,252	Patent date: 08/11/1998.
Mosher, Jr. et al.	US. Patent No. 5,799,323	Patent date: 08/25/1998.
Mosher, Jr. et al.	US. Patent No. 6,553,392 B1	Patent date: 04/22/2003.
Mosher Jr.	US. Patent No. 6,584,477 B1	Patent date: 06/24/2003.
Nakao	Pub No. US 2005/0257272 A1	Pub date: 11/17/2005.

NPL:

PLattini et al. Secure database: state of the art, Security Technology, 2000, date 10/23-25/2000, page 228-237.

John L. Berg, Data base directions: the next steps, ACM SIGMOS, ACM Press, date 11/1976.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:


Commissioner of Patents and Trademarks
Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

(571) -273-8300 [Official Communication]

BQ To

May 16th, 2006



JEAN M. CORBELLE
PRIMARY EXAMINER